

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/013433

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 D21H19/54

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 591 412 A (SMIT GESIENUS) 6 July 1971 (1971-07-06) example 1 claims 1,3	1,3-8, 11,13
X	EP 0 319 989 A (AQUALON CO) 14 June 1989 (1989-06-14) page 4, line 52 - page 5, line 11 page 3, line 30 - line 34	1,3-5,7, 8,11,13
X	WO 99/64467 A (AVEBE COOP VERKOOP PROD ;KESSELMANS RONALD PETER WILHEL (NL)) 16 December 1999 (1999-12-16) page 5, line 3 - line 31 claims 1,3,7,11	1,3,7,8, 11,13
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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- * & * document member of the same patent family

Date of the actual completion of the international search

23 February 2005

Date of mailing of the international search report

04/03/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 682 733 A (SMIT GESIENUS) 8 August 1972 (1972-08-08) claim 1	1,5,7,8, 11,13
X	US 3 746 558 A (NIEUWENHUIS W ET AL) 17 July 1973 (1973-07-17) column 3, line 24 - line 32 example 1 claims 1,3,4	1-3,7,8, 11,13
Y	US 4 387 221 A (TESSLER MARTIN M ET AL) 7 June 1983 (1983-06-07) abstract column 3, line 7 - line 13 column 9, line 29 - column 9, line 37	1-13
X	EP 0 609 994 A (CERESTAR HOLDING BV) 10 August 1994 (1994-08-10) page 3, line 12 - line 36 claims 1,3,5 the whole document	1,3-5,7, 8,11,13
Y	DATABASE WPI Section Ch, Week 199847 Derwent Publications Ltd., London, GB; Class A14, AN 1998-551522 XP002273869 & JP 10 245797 A (UNICHIKA CHEM KK) 14 September 1998 (1998-09-14) abstract	1-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/013433

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3591412	A	06-07-1971	BE 706506 A 18-03-1968
			BE 708715 A 01-07-1968
			CH 496851 A 30-09-1970
			DE 1643846 A1 05-08-1971
			DE 1696265 A1 23-12-1971
			FI 51723 B 30-11-1976
			FR 1552989 A 10-01-1969
			FR 1567997 A 23-05-1969
			GB 1148023 A 10-04-1969
			GB 1216840 A 23-12-1970
			NL 137240 C
			NL 6715419 A 16-05-1968
			NL 6717763 A 01-07-1968
			NO 125856 B 13-11-1972
			SE 353556 B 05-02-1973
			US 3654263 A 04-04-1972
			US 3682733 A 08-08-1972
			US 3706584 A 19-12-1972
			MX 3447 E 02-12-1980
			MX 3345 E 03-10-1980
EP 0319989	A	14-06-1989	US 4841040 A 20-06-1989
			CA 1308099 C 29-09-1992
			DE 3851614 D1 27-10-1994
			DE 3851614 T2 19-01-1995
			EP 0319989 A2 14-06-1989
WO 9964467	A	16-12-1999	AT 248861 T 15-09-2003
			AU 4292999 A 30-12-1999
			AU 4293099 A 30-12-1999
			BR 9910990 A 13-02-2001
			CA 2334484 A1 16-12-1999
			CN 1305499 T 25-07-2001
			DE 69911018 D1 09-10-2003
			DE 69911018 T2 08-07-2004
			DK 1090040 T3 24-11-2003
			EP 1090040 A1 11-04-2001
			ES 2207304 T3 16-05-2004
			ID 26849 A 15-02-2001
			JP 2002517567 T 18-06-2002
			WO 9964466 A1 16-12-1999
			WO 9964467 A1 16-12-1999
			US 6613152 B1 02-09-2003
US 3682733	A	08-08-1972	BE 706506 A 18-03-1968
			BE 708715 A 01-07-1968
			CH 496851 A 30-09-1970
			DE 1643846 A1 05-08-1971
			DE 1696265 A1 23-12-1971
			FI 51723 B 30-11-1976
			FR 1552989 A 10-01-1969
			FR 1567997 A 23-05-1969
			GB 1148023 A 10-04-1969
			GB 1216840 A 23-12-1970
			NL 137240 C
			NL 6715419 A 16-05-1968
			NL 6717763 A 01-07-1968
			NO 125856 B 13-11-1972

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Information on patent family members

International Application No

PCT/EP2004/013433

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3682733	A		SE 353556 B	05-02-1973
			US 3591412 A	06-07-1971
			US 3654263 A	04-04-1972
			US 3706584 A	19-12-1972
			MX 3447 E	02-12-1980
			MX 3345 E	03-10-1980
US 3746558	A	17-07-1973	GB 1363625 A	14-08-1974
			AT 313048 B	25-01-1974
			BE 769942 A2	16-11-1971
			CA 934904 A1	09-10-1973
			CH 558815 A	14-02-1975
			DE 2134686 A1	20-01-1972
			ES 393212 A1	01-08-1973
			FR 2103680 A5	14-04-1972
			JP 52000055 B	05-01-1977
			NL 7109449 A	18-01-1972
			SE 374117 B	24-02-1975
US 4387221	A	07-06-1983	NONE	
EP 0609994	A	10-08-1994	AT 160192 T	15-11-1997
			CA 2114477 A1	31-07-1994
			DE 69406688 D1	18-12-1997
			DE 69406688 T2	26-03-1998
			EP 0609994 A1	10-08-1994
			ES 2109599 T3	16-01-1998
			FI 940428 A	31-07-1994
			JP 7048402 A	21-02-1995
			US 5399193 A	21-03-1995
JP 10245797	A	14-09-1998	NONE	